

Notice of References Cited		Application/Control No.	Applicant(s)/Patent Under Reexamination	
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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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NON-PATENT DOCUMENTS

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X	U	Oxford English Dictionary Online; unitary, a. p. 1-4; abbreviations C, S (Second Edition 1989)
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unitary, a.

SECOND EDITION 1989

(ju:nɪtərɪ) [f. UNIT n. or UNIT-Y¹ + -ARY¹. Cf. F. *unitaire* n. and a., It. *unitario* n., f. mod.L. *unitari-us* UNITARIAN.]

1. Cryst. (See quot.)

1816 R. JAMESON *Char. Min.* (ed. 2) 211 A crystal is named Unitary, when it experiences only a single decrement by one row.

2. a. Of or pertaining to, characterized by, based upon, or directed towards, unity.

1847 TAIT'S *Mag.* XIV. 560 The parcelled and the associative systems... With the latter the economies of unitary habitation..might be obtained. **1871** LOWELL *Study Wind.*

(1866) 221 The national and unitary tendencies of the people. **1893** CONTEMP. REV. 799 The unitary movement in the latter country [sc. Italy].

b. Philos. Of or pertaining to, proceeding from, involving, unity of being or existence. Also *absol.*

a1842 CHANNING *Perfect Life* (1888) 64 Man loves the Universal, the Unchangeable, the Unitary. **1885** J. MARTINEAU *Types Eth. Th.* I. 86 Every attempt at unitary deduction of a universe by predicamental logic. **1893** C. B. UPTON *Bases Relig. Belief* 298 A unity of substance which..connects every part with the unitary life of the whole.

3. a. Of the nature of a unit; having the separate existence or individual character of a unit. Of sounds: Simple, uncompounded.

1861 LOWELL *E Pluribus Unum* Pr. Wks. 1890 V. 49 The United States are not a German Confederation, but a unitary and indivisible nation. **1875** WHITNEY *Life Lang.* iv. 56 We have altered their original unitary sounds. **1881** HUXLEY *in Nature* XXIV. 345 An indivisible unitary archæus dominating..the parts of the organism.

b. Philos. Of being or personality.

1865 J. GROTE *Explor. Philos.* I. 88 Whether..we are to be considered as having a locally distributable, or on the other hand concentrated and unitary, feeling self. **1886** ENCYCL. BRIT. XXI. 379/1 Indirect proofs of a universe of pure and unitary Being. **a1901** F. W. H. MYERS *Human Personality* (1903) I. p. xxvi, Each man is at once profoundly

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symmetry but split into isotopic spin multiplets by a symmetry-breaking term... The symmetry is called unitary symmetry and corresponds to the 'unitary group' in three dimensions in the same way that charge independence corresponds to the 'unitary group' in two dimensions. **1969** [see LIE]. **1975** *Physics Bull.* Apr. 176/2 Strong interactions among nucleons are invariant under a group of unitary symmetry transformation which changes protons into neutrons and vice versa—the group SU(2). **1979** CHENG & O'NEILL. *Elementary Particle Physics* xiii. 275 The mathematical groups on which elementary particle physicists have concentrated most of their attention are..continuous groups described by matrices U that are unitary: $U^\dagger U = 1$.

5. Forming a unit *with* something.

1868 LOWELL. *Among my Bks.* Ser. I. Wks. 1890 III. 26 [Shakespeare] seems in some strange way unitary with human nature itself.

6. Special collocations: **unitary taxation** (U.S.), a system of taxation by which a company or business is taxed on a proportion of its worldwide earnings, and not just on those made within the jurisdiction of the taxation authority (i.e. a State government); also **unitary tax**.

1977 *Washington Post* 14 Aug. A8/4 Brown is moving to alleviate concerns of multinational companies over the state's 'unitary tax'. **1979** *Economist* 7 July 91/2 Unitary taxation (purists call it combined or consolidated income reporting)..hits a company not on profits made in a given state but on a percentage of the parent's total (multi-state or world-wide) income. **1984** *Miami Herald* 6 Apr. 22A/3 When the governor crawfishes out of his ill-advised unitary tax (his great tax-reform promise), the greedy ones might try to increase property taxes again.

Hence '**unitarily** *adv.*, in a unitary manner; '**unitariness**, **unitarity**, the property of being unitary.

1865 J. GROTE *Moral Ideals* (1876) 27 [Must not] the plant..have..a sort of feeling to the extent of its unitariness of organization? **1924** N.E.D. s.v. *unitary* a., Unitarily. **1932** *Amer. Jrnl. Math.* LIV. 149 Similar unitary matrices are..always unitarily equivalent. **1959** *Nuovo Cimento* XIII. 354 The unitarity of the S-matrix implies that it can be written in terms of a hermitian matrix A in the form $S = [\text{etc.}]$. **1969** *Nature* 24 May 720/1 SU_2 and SU_3 ..are simple unitary symmetries in which the unitarity ensures that a set of possibilities has unit probability. **1979** J. C. POLKINGHORNE *Particle Play* vi. 88 S-matrix theory played a valuable role in highlighting certain general properties (unitarity, crossing, analyticity) which are important aspects of relativistic quantum mechanics.

unitary, adj.

► *Polit.* Of or relating to a system of government or administration in which the powers of the separate constituent parts are vested in a central body, as opposed to two or more tiers of jurisdiction, authority, or responsibility. In later use also (chiefly *Brit.*): *spec.* designating or relating to a single level of local government within an area, esp. as a replacement for a two-tier system of local councils; usu. in ***unitary authority***, ***unitary council***.

1900 *N.Y. Times* 27 Dec. 5/5 The various sections into which the Cuban Constitutional Convention was divided some weeks ago..are gradually getting together on the basis of a unitary Government, which restricted suffrage. **1908** *Proc. Amer. Polit. Sci. Assoc.* 5 37 (*note*) The term federal government is not used in contrast to state government, but as indicating the general system of divided jurisdiction existing in such countries as the United States or Canada, in contradistinction to the unitary governments of the United Kingdom and France. **1936** R. C. K. ENSOR *England, 1870-1914* ix. 296 A special effect of the County Councils Act was that London acquired for the first time since its vast modern expansion a popularly elected unitary authority in the shape of the L.C.C.

1969 *Rep. Royal Comm. Local Govt.* I. vi. 73, in *Parl. Papers 1968-9* (Cmd. 4040) XXXVIII. 29 We would combine responsibility for all services in a single authority for each area. We call such areas unitary and the authorities responsible for them unitary authorities. **1969** *Daily Tel.* 12 June 23 (*caption*) The proposed eight new provincial regions and the 61 huge unitary councils recommended by the Royal Commission.

1981 K. ABERCROMBIE *Rural Devel. Lewis & Harris* (BNC) 10 The WIIC [= Western Isles Islands Council] is a unitary authority, responsible for most local services, which elsewhere in the United Kingdom are divided between two separate tiers of local government. **1997** *Press* (Christchurch, N.Z.) (Nexis) 27 June 5 The possibility of replacing the Canterbury Regional Council with a unitary authority should be explored.

Help with using *OED Online*

Abbreviations: C

Abbreviation	Meaning
c.	century
c	(in dates) circa
Calligr.	calligraphy
Camb.	Cambridge
Campanol.	campanology
Canad.	Canadian
Canad. Fr.	Canadian French
Canad.-Fr.	Canadian French
Canadian Fr.	Canadian French
Cape Du.	Cape Dutch
Cartogr.	cartography
Cat.	Catalan
Catal.	Catalan
catachr.	catachrestically
Cath.	Catholic
Celt.	Celtic
Celto-Teut.	Celto-Teutonic
cent.	century
Ceram.	ceramics
Cf.	confer, 'compare'
cf.	confer, 'compare'
Ch.	Church
Ch.	Chinese
Chald.	Chaldee
Chem.	chemistry
Chem. Engin.	chemical engineering
Ch. Hist.	Church history

Oxford English DictionaryHelp with using *OED Online*

Abbreviations: S

Abbreviation	Meaning
S.	Saxon
S.	south
s.	south
S.Afr.	South Africa(n)
S. Afr. Du.	South African Dutch
S. Amer. Sp.	South American Spanish
S. Amer.-Sp.	South American Spanish
Sard.	Sardinian
Saterl.	Saterland
Satl.	Saterland
Sax.	Saxon
sb.	substantive
Sc.	Scottish, Scots
se.	scilicet, 'understand' or 'supply'
Scand.	Scandinavian
Sc. Gael.	Scottish Gaelic
Sc. Gaelic	Scottish Gaelic
Sci.	science
sci.	science, scientific
Scot.	Scottish
Scotl.	Scotland
Script.	scripture
S.E.	south-east
s.e.	south-eastern (dialect)
Seismol.	seismology
Serb.	Serbian, Serbo-Croat
Serv.	Serbian, Serbo-Croat

Shetl.	Shetland
Shropsh.	Shropshire
Sicil.	Sicilian
Sicilian Ital.	Sicilian Italian
sing.	singular
Sinh.	Sinhala
Sinhal.	Sinhala
Sk.	Sanskrit
Skr.	Sanskrit
Skt.	Sanskrit
Slav.	Slavonic
Slav.-Lith.	Slavonic-Lithuanian
Slov.	Slovene
Sociol.	sociology
Som.	Somerset
south.	southern (dialect)
Sp.	Spanish
sp.	spelling
Sp. Amer.	Spanish American
Sp.-American	Spanish American
Span.	Spanish
Spanish Arab.	Spanish Arabic
spec.	specifically
Sp. Gypsy	Spanish Gypsy
St.	Saint
st.	stem
Staffordsh.	Staffordshire
Staffs.	Staffordshire
Stock Exch.	stock exchange
str.	strong
subj.	subject
subj.	subjunctive
subjunct.	subjunctive